

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

RECEIVED

MAR. - 9. 2005

OHTSUKA PAT

| | | | |
|--|---|---|---|
| Applicant's or agent's file reference P203-0471WO | FOR FURTHER ACTION | | See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) |
| International application No. PCT/JP 03 / 15094 | International filing date (day/month/year) 26.11.2003 | Priority date (day/month/year) 29.11.2002 | |
| International Patent Classification (IPC) or national classification and IPC Int.Cl? B41J29/38, G06F3/12 | | | |
| Applicant CANON KABUSHIKI KAISHA | | | |

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 12 sheets.

3. This report contains indications relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

| | | |
|---|--|----------------|
| Date of submission of the demand 28.06.04 | Date of completion of this report 17.02.2005 | |
| Name and mailing address of the IPEA/JP Japan Patent Office 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan | Authorized officer JUNICHI HATAI | 2P 8906 |
| Telephone No. +81-3-3581-1101 Ext. 6569 | | |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP 03 / 15094

L Basis of the report

1. With regard to the elements of the international application:*

 the international application as originally filed the description:pages 1 - 82, as originally filed
pages _____, filed with the demand
pages _____, filed with the letter of _____ the claims:Nos. 2 - 8, 10 - 16, 18 - 24, as originally filed

Nos. _____, as amended (together with any statement) under Article 19

Nos. _____, filed with the demand

Nos. 1, 9, 17, 25 - 33, filed with the letter of 28.06.2004 the drawings:sheets/figs 1 - 50, as originally filed

sheets/figs _____, filed with the demand

sheets/figs _____, filed with the letter of _____

 the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

 the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

 contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. The amendments have resulted in the cancellation of: the description, pages _____ the claims, Nos. _____ the drawings, sheets/figs _____5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|------|-----|
| Novelty (N) | Claims | 1-33 | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | 1-33 | YES |
| | Claims | | NO |
| Industrial applicability (IA) | Claims | 1-33 | YES |
| | Claims | | NO |

2. Citations and explanations (Rule 70.7)

The following subject matters are not in view of D1,D2.

The subject matter of claim 1 "issuing a recording instruction to said recording apparatus on the basis of first and second recording conditions,"

The subject matter of claim 9 "issuing a recording instruction to the recording apparatus on the basis of first and second recording conditions."

The subject matter of claim 17 "a recording instruction step of issuing a recording instruction to the recording apparatus on the basis of the first recording condition stored in the storage medium in the storage step, and the second recording condition,"

The subject matter of claim 25 "transmission means for transmitting the second recording condition including information for designating the first recording condition to the recording apparatus."

The subject matter of claim 27 "wherein the information to designate the first recording condition is described as image data to be recorded in the second recording condition."

The subject matter of claim 29 "a transmission step of transmitting the second recording condition including information for designating the first recording condition to the recording apparatus."

The subject matter of claim 30 "wherein the information to designate the first recording condition is described as image data to be recorded in the second recording condition."

D1:JP 06-19649 A (TOKYO DENSIEKKEI KABUSHIKI KAISHA) 28.01.1994

D2:JP 2002-211049 A (CANON KABUSHIKI KAISHA) 31.07.2002

CLAIMS

1. (Amended) A recording system in which an image supply device and a recording apparatus directly communicate each other, and data is supplied from said image supply device to said recording apparatus to attain a recording process, characterized in that said image supply device comprises:
 - an interface adapted to connect with a storage medium which stores image data and a first recording condition associated with a recording process of the image data;
 - acquisition means for acquiring information associated with a function of said recording apparatus by communicating with said recording apparatus;
 - setting means for setting a second recording condition associated with the recording process of the image data on the basis of the information associated with the function, which is acquired by said acquisition means; and
 - recording instruction means for issuing a recording instruction to said recording apparatus on the basis of the first and second recording conditions, and
- 25 said recording apparatus comprises:
 - recording control means for controlling to acquire image data stored in said storage medium in

accordance with the recording conditions designated by said recording instruction means and to recording the image data.

5 2. The system according to claim 1, characterized in that said image supply device further comprises selection means for selecting one of the first and second recording conditions to be preferentially used to issue a recording instruction to said recording apparatus.

3. The system according to claim 1, characterized in that said image supply device further comprises: comparison means for comparing the first and second recording conditions; and recording condition selection means for, when it is determined as a result of comparison by said comparison means that the first and second recording conditions are different from each other, selecting one of the first and second recording conditions.

4. The system according to claim 1, characterized in that said image supply device further comprises: comparison means for comparing the first and second recording conditions; and warning display means for, when it is determined as a result of comparison by said comparison means that

the first and second recording conditions are different from each other, displaying a warning.

5. The system according to claim 1, characterized in
5 that the first recording condition is designated by a
DPOF.

6. The system according to claim 5, characterized in
that said image supply device comprises input means for
10 inputting the first recording condition, and means for
generating the DPOF on the basis of information input
by said input means.

7. The system according to claim 1, characterized in
15 that said recording instruction means generates a
command sequence for the second recording condition,
which includes image data selected by the first
recording condition in the second recording condition.

20 8. The system according to claim 1, characterized in
that the second recording condition is a recording
condition based on a common protocol between said image
supply device and said recording apparatus.

25 9. (Amended) An image supply device characterized by
comprising:

an interface adapted to connect with a storage medium for storing image data and a first recording condition associated with a recording process of the image data;

5 acquisition means for acquiring information associated with a function of a recording apparatus by communicating with the recording apparatus;

setting means for setting a second recording condition associated with the recording process of the 10 image data on the basis of the information associated with the function, which is acquired by said acquisition means; and

recording instruction means for issuing a recording instruction to the recording apparatus on the 15 basis of the first and second recording conditions.

10. The device according to claim 9, characterized by further comprising selection means for selecting one of the first and second recording conditions to be 20 preferentially used to issue a recording instruction to said recording apparatus.

11. The device according to claim 9, characterized by further comprising comparison means for comparing the 25 first and second recording conditions, and recording condition selection means for, when it is determined as a result of comparison by said comparison means that

the first and second recording conditions are different from each other, selecting one of the first and second recording conditions.

5 12. The device according to claim 9, characterized by further comprising comparison means for comparing the first and second recording conditions, and warning display means for, when it is determined as a result of comparison by said comparison means that the first and
10 second recording conditions are different from each other, displaying a warning.

13. The device according to claim 9, characterized in that the first recording condition is designated by a
15 DPOF.

14. The device according to claim 13, characterized by further comprising input means for inputting the first recording condition, and means for generating the DPOF
20 on the basis of information input by said input means.

15. The device according to claim 9, characterized in that said recording instruction means generates a command sequence for the second recording condition,
25 which includes image data selected by the first recording condition in the second recording condition.

16. The device according to claim 9, characterized in that the second recording condition is a recording condition based on a common protocol between said image supply device and the recording apparatus.

5

17. (Amended) A recording control method for recording by directly communicating an image supply device and a recording apparatus, and supplying data from the image supply device to the recording apparatus, characterized 10 by comprising:

a storage step of storing image data and a first recording condition associated with a recording process of the image data in a storage medium;

15 an acquisition step of acquiring information associated with a function of the recording apparatus by communicating with the recording apparatus;

a setting step of setting a second recording condition associated with the recording process of the image data on the basis of the information associated 20 with the function, which is acquired in the acquisition step;

a recording instruction step of issuing a recording instruction to the recording apparatus on the basis of the first recording condition stored in the 25 storage medium in the storage step, and the second recording condition; and

a recording control step of controlling to
acquire image data stored in the storage medium in
accordance with the recording conditions designated in
the recording instruction step and to recording the
5 image data.

18. The method according to claim 17, characterized by
further comprising a selection step of selecting one of
the first and second recording conditions to be
10 preferentially used to issue a recording instruction to
the recording apparatus.

19. The method according to claim 17, characterized by
further comprising a comparison step of comparing the
15 first and second recording conditions; and a recording
condition selection step of selecting, when it is
determined as a result of comparison in the comparison
step that the first and second recording conditions are
different from each other, one of the first and second
20 recording conditions.

20. The method according to claim 17, characterized by
further comprising a comparison step of comparing the
first and second recording conditions, and a warning
25 display step of displaying, when it is determined as a
result of comparison in the comparison step that the

first and second recording conditions are different from each other, a warning:

21. The method according to claim 17, characterized in
5 that the first recording condition is designated by a
DPOF.

22. The method according to claim 21, characterized by
further comprising an input step of inputting the first
10 recording condition, and a step of generating the DPOF
on the basis of information input in the input step.

23. The method according to claim 17, characterized in
that the recording instruction step includes a step of
15 generating a command sequence for the second recording
condition, which includes image data selected by the
first recording condition in the second recording
condition.

20 24. The method according to claim 17, characterized in
that the second recording condition is a recording
condition based on a common protocol between the image
supply device and the recording apparatus.

25 25. (Added) An image supply device comprising:

an interface adapted to connect with a storage
medium which stores image data and a first recording

condition associated with a recording process of the image data;

acquisition means for acquiring information associated with a function of a recording apparatus by 5 communicating with the recording apparatus;

setting means for setting a second recording condition associated with the recording process of the image data on the basis of the information associated with the function, which is acquired by said 10 acquisition means; and

transmission means for transmitting the second recording condition including information for designating the first recording condition to the recording apparatus.

15

26. (Added) The device according to claim 25, wherein the information for designating the first recording condition designates a DPOF file.

20 27. (Added) A recording apparatus comprising:

transmission means for transmitting information relating to the functions of the recording apparatus to an image supply device; and

reception means for receiving information to 25 designate a first recording condition in which the image supply device has, wherein the information is designated by a second recording condition in

accordance with the information relating to the functions of the recording apparatus,

wherein the information to designate the first recording condition is described as image data to be 5 recorded in the second recording condition.

28. (Added) The apparatus according to claim 27, wherein the first recording condition is a DPOF file.

10 29. (Added) A control method of an image supply device comprising:

a reading step of reading image data via an interface from a storage medium which stores the image data and a first recording condition associated with a 15 recording process of the image data;

an acquisition step of acquiring information associated with a function of a recording apparatus by communicating with the recording apparatus;

a setting step of setting a second recording 20 condition associated with the recording process of the image data on the basis of the information associated with the function, which is acquired in said acquisition step; and

a transmission step of transmitting the second 25 recording condition including information for designating the first recording condition to the recording apparatus.

30. (Added) A control method of a recording apparatus comprising:

5 a transmission step of transmitting information relating to the functions of the recording apparatus to an image supply device; and

10 a reception step of receiving information to designate a first recording condition in which the image supply device has, wherein the information is designated by a second recording condition in accordance with the information relating to the functions of the recording apparatus,

15 wherein the information to designate the first recording condition is described as image data to be recorded in the second recording condition.

31. (Added) A recording medium being capable of being read by a computer, for storing a program for implementing a recording control method according to 20 claim 17.

32. (Added) A recording medium being capable of being read by a computer, for storing a program for implementing a control method according to claim 29.

33. (Added) A recording medium being capable of being read by a computer, for storing a program for implementing a control method according to claim 30.